

**AMENDMENTS TO THE DRAWINGS**

Please replace the original Drawing Sheets showing Figures 13-20 in the present application with the attached Replacement Drawing Sheets showing Figures 13-20 with proper labeling.

Attachment:   Seventeen (17) Annotated Sheets Showing Changes  
                  Seventeen (17) Replacement Drawing Sheets

**REMARKS**

This is in response to the Notice to File Corrected Application Papers – Notice of Allowance Mailed (the “Notice”) dated October 18, 2010, a copy thereof is attached. Applicants hereby submit Annotated Sheets Showing Changes and Replacement Drawing Sheets containing Figures 13-20 in the present application. According to the Notice, Figures 13-20 as originally submitted is continued onto a second page (or more) without proper labeling as continuation. The Replacement Drawing Sheets containing Figures 13-20 submitted herewith correct the aforementioned defects. The amendments to Figures 13-20 find support *inter alia* in the original Figures 13-20. No new matter has been added in the Replacement Drawing Sheets submitted herewith. In view of the present amendments, Applicants believe that the application is in compliance with 37 CFR § 1.84 and 37 CFR § 1.121(d).

This response is filed within the two-month period for response from the mailing of the Notice. No fee is believed due. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 13478-00002-US from which the undersigned is authorized to draw.

Respectfully submitted,

By / Hui-Ju Wu /  
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Annotated Sheets Showing Changes

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Figure 13: Alignment of SEQ ID NO: 2 with Swiss Prot database

	1	50
Q9JZ47	.....	MSSNKASFFTRL
Q9JU41	.....	MSSNKASFFTRL
Q59601	.....	MSSNKASFFTRL
Q9HW50	.....	MARLRLLLRSARL
SEQ ID NO: 2	.....	MSAWTRAKTAVGL
O35259	METIMDDEVTKRTSAEELESWNLLSRTNYNFYISLRLTILWGLGVLI	RY

  

	51	100
Q9JZ47	RRLCRLAVWLFKTGKNLRGIDGG.CPESRNRAVIELGRGVLAALD.....	
Q9JU41	RRLCRLTVWLFKTGKNLRGIDGG.CPESRNRAVIELGRGVLAALD.....	
Q59601	RRLCRLTVWLFKTGKNLRGIDGG.CPKSRNRAVIALGKGALAALD.....	
Q9HW50	LGLVALGLGLAAWVSLRERLPGADVTPLRQRLTRWWLARLCAALP.....	
SEQ ID NO: 2	LTLAPARIVFLVTVLGTYGLTVAACTRLGVPKSFVLGLTRCVARLTWGL	
O35259	CFLPLRLIALAFTGIGLLVVGTTMVGYPNGRFKEFLSKHVHLMCYRICV	

  

	101	150
Q9JZ47	..IGLEVGRPAPEHPNG..VLVAANHVSULDIFAMS.AVYPSSFIKQEI	
Q9JU41	..IGLEVGRPAPEHPNG..VLVAANHVSULDIFAMS.AVYPSSFIKQEI	
Q59601	..IGLEVGRPAPEHPNG..VLVAANHVSULDIFAMS.AVYPSSFIKQEI	
Q9HW50	..FEVRVSGEAPRQP...MLWVANHVSWTDIPLL.G.ALAPLTFLSKAEV	
SEQ ID NO: 2	GFYHIEVSCDAQGLREWP.RVIVANHVSYLEILYFMSTVHCPSFVMKKT	
O35259	RALTAITTYHNRKNRPRNGGICVANHTSRIDVIFASDGGYAMVGVHGG	

  

	151	200
Q9JZ47	KSWPVLGKMGQNAGTVFINRNSRR.....DIEPINRAVCETLQRGQ	
Q9JU41	KSWPVLGKMGQNAGTVFINRNSRR.....DIEPINRAVCETLQRGQ	
Q59601	KSWPVLGKMGQNAGTVFINRNSRR.....DIEPINRAVCETLQRGQ	
Q9HW50	RAWPLAGWLAEKAGTLFIRRGSG.....DSRLINQRLAEQLHRGR	
SEQ ID NO: 2	LRVPLVGYIAMELGGVIVDREGGQSASAIIRDVRVQEPDRDSSEKHHAQ	
O35259	LMGVIRAMVKACPHVWFERSEVK.....DRHLVAKRLTEHVQDKS	

  

	201	250
Q9JZ47	..NVSFFPEARTSSGLGLLPFKAALFQSAIDAGAKVLAVALRYYDETGKR	
Q9JU41	..NVSFFPEARTSSGLGLLPFKAALFQSAIDAGAKVLAVALRYYDETGKR	
Q59601	..NVSFFPEARTSSGLGLLPFKAALFQSAIDAGAKVLAVALRYYDETGKR	
Q9HW50	..NLLIFPEGTTTNGESLRTFHGRLMASALEAGVAVQPVAISYRRDGVDP	
SEQ ID NO: 2	..PLLVPFEGTTTNGSCLLQFKTGAFR...PG.APVLPVVLEFPIDKARG	
O35259	KLPILIFPEGTCINNTSVMFMFKGSFEIG...ATVYPVAIKY..DPQFG	

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Figure 13 (continued)

	251	300
Q9JZ47	TARPSYADVGLPTCLWRIVSMKKLTIRVDFVCVADAAE.....	
Q9JU41	TARPSYADVGLPTCLWRIVSMKKLTIKVDFVCVADAAE.....	
Q59601	TARPSYADVGLPTCLWRIVSMKKLTIKVDFVCVADAAE.....	
Q9HW50	AQAPFIGDDLLSHLGRLLRGERGSVHIQLLEPIPSQ.....	
SEQ ID NO: 2	DFSPAYESVHTPAHLRLMLAQWRHRLRVRYLPLYEPSAAEKVDADLYARN	
O35259	DAFWNSSKYGMVTYLLRMMTSWAIVCSVWYLPMTRE.....	

	301	349
Q9JZ47	...SEDRYALKDKIEESIRAVVADDADIIV.....	
Q9JU41	...SEDRYALKDKIEESIRAVVADDADIIV.....	
Q59601	...SEDRYALKDKIEESIRAVVADDADIIV.....	
Q9HW50	...GLDRAELARQAQQAVRLALFGTAAPTQTRRAA.....	
SEQ ID NO: 2	VRDEMARALKVPTVEQSYRDKLVYHADLMPHYQKAGPGALYLYVRPDL	
O35259	.....KDEDAVQFANRVKSAIARQEDW.....	

Annotated Sheets Showing Changes

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Figure 14: Alignment of SEQ ID NO: 5 with Swiss Prot database

	1	50
Q9C9P8	MEVCGDLKSDNLKNRPLTPLRILRGLMILLVFLSTAFMFLLYFAPIAALG	
Q9SFJ1	MEVCGDLKSDNLKNRPLTPLRILRGLMILLVFLSTAFMFLLYFAPIAALG	
Q9LHN4	....MEKKSVPNSDKLSLIRVLRGIICLMVLVSTAFMMLIFWGFLSAVV	
SEQ ID NO: 5	.....	
Q9SDN3	.....	
Q9XFW4	.....MAMAAVIVPLGILFFISGLVNNLQAVCYVLV	
	51	100
Q9C9P8	LRLLSVQQSRKVSLIFGLWLALWPYLFETVNGTTVVFSGDIIP...VEK	
Q9SFJ1	LRLLSVQQSRKVSLIFGLWLALWPYLFETVNGTTVVFSGDIIP...VEK	
Q9LHN4	LRLFSIRYSRKCVSFFFGSWLALWPFLFEKINKTKVIFSGDKVP...CED	
SEQ ID NO: 5	.....MDVVKVIFAGDKVP...KEN	
Q9SDN3	.....MGKE	
Q9XFW4	RPMSKNTYRKINRVVAETLWLELVWIVDWWAGVKIQVFADDETFNRMGKE	
	101	150
Q9C9P8	RVLLIANHRTEVDWMYLWNIALRKGCGLGYIKYVLKSSLMKLPIFGWGFHV	
Q9SFJ1	RVLLIANHRTEVDWMYLWNIALRKGCGLGYIKYVLKSSLMKLPIFGWGFHV	
Q9LHN4	RVLLIANHRTEVDWMYFWDLALRKQGIGNIKYVLKSSLMKLPLFGWAFHL	
SEQ ID NO: 5	RVMVMCNHRTEVDWMYIWNLAIRKGKIGYCKYAVKNSVKNLPLFGWAFYV	
Q9SDN3	HALVISNHRSDIDWLVGWVLAQRSGCLGSSLAVMKKSSKFLPVIGWSMWF	
Q9XFW4	HALVVCNHRSDIDWLVGWILAQRSGCLGSALAVMKKSSKFLPVIGWSMWF	
	151	200
Q9C9P8	LEFIPVERKREVDEPVLLQMLSSFKDPQEPLWLALFPEGTDFTTEEKCKRS	
Q9SFJ1	LEFIPVERKREVDEPVLLQMLSSFKDPQEPLWLALFPEGTDFTTEEKCKRS	
Q9LHN4	FEFIPVERRWEVDEANLRQIVSSFKDPRDALWLALFPEGTDYTEAKCQRS	
SEQ ID NO: 5	FEFLMLHRKWEVDAPVIKTYIDSFQDKRDPLWL VVFPEGTD FSEAKRDTG	
Q9SDN3	SEYLFLEERSWAKDEGTLKSGVQRLKDFPQPFWLALFVEGTRFTQAKLLAA	
Q9XFW4	SEYLFLEERNWAKDESTLQSGLQRLNDFPRPFWLALFVEGTRFTEAKLKAA	
	201	250
Q9C9P8	QKFAAEVGLPALSNVLLPKTRGFGVCLEVLHNSLDAVYDLTIAYKPRCP.	
Q9SFJ1	QKFAAEVGLPALSNVLLPKTRGFGVCLEVLHNSLDAVYDLTIAYKPRCP.	
Q9LHN4	KKFAAENGLPILNNVLLPRTKGFVSCLQELSCSLDAVYDVTIGYKTRCP.	
SEQ ID NO: 5	NAIGREKGYPELVNVLQPRTRGFVTCLSQSRCSLDAVYDLTIGYKKRCP.	
Q9SDN3	QEYAAATGLPVPRNVLIPTKGFVTAVSQMRSFAPAIYDVTVAIPKSSPA	
Q9XFW4	QEYAASELVPVPRNVLIPTKGFVSAVSNMRSFVPAIYDMTVAIPKTSPP	

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Figure 14 (continued)

	251	300
Q9C9P8	SFMDNVFGTDPSEVHIHVRRLKEIPANEAESSAWLMSFKLKDKLSD	
Q9SFJ1	SFMDNVFGTDPSEVHIHVRRLKEIPANEAESSAWLMSFKLKDKLSD	
Q9LHN4	SFLDNVYGIPESEVHIHRRINLTQIPNQEKDINAWLMNTFQLKDQLLND	
SEQ ID NO: 5	LFINNFGTDPSEVHIHRRIPISEIPQSEDGMTQWLYDLFYQKDQMLAS	
Q9SDN3	PTMLRLFEGRPSVVHVHIKRVHMRDLPETDEAVAQWCKDIFVAKDALLDK	
Q9XFW4	PTMLRLFQGPVSVHVHIKCHSMKDLPEPEDEIAQWCRDQFVAKDALLDK	
	301	350
Q9C9P8	FNAQGFNPQRPEEELSVLKCIATFAGKQQVTKPSCQKVFLLLNQSSDE	
Q9SFJ1	FNAQGFNPQRPEEELSVLKCIATFAGKQQVTKPSCQKVFLLLNQSSDE	
Q9LHN4	FYSNGHFPNEGTEKEFNTKKYLINCLAVIAFTTICTHLTFFSSMIWFRIY	
SEQ ID NO: 5	FSKTGSFPDSGIE.ESPLNIVEGVCNVALHVLSGWVFWCLFHSVWLKLY	
Q9SDN3	HTVEQTFGDQQLKVTGRPLKSLLVVTAWACLLILGALKFLYWSSLLSSWK	
Q9XFW4	HIAADTFPGQKEQNIGRPIKSLAVVSWACLLTLGAMKFLHWSNLFSSWK	
	351	400
Q9C9P8	KESKKAVAQHPFTDTLDHLFQVEHSISCFLYMHIYNLSTCHLISLYE...	
Q9SFJ1	KESKKAVAQHPFTDTLDHLFQVEHSISCFLYMHIYNLSTCHLISLYE...	
Q9LHN4	VSLACVYLTSAHFNLRSVPLVETAKNSLKLVNK.....	
SEQ ID NO: 5	VAFASLLLAFSTYFDWRPKPVYSSLRTKRKIV.....	
Q9SDN3	GIAFSALGLGVVTVLMQILIRFSQSERSTPAPVAPTNNKNKGESSGKPEK	
Q9XFW4	GIALSAFGLGIITLCMQILIRSSQSERSTPAKVAPAKPKDNHQSGPSSQT	
	401	
Q9C9P8	.....	
Q9SFJ1	.....	
Q9LHN4	.....	
SEQ ID NO: 5	.....	
Q9SDN3	QQ.....	
Q9XFW4	EVEEKQK	

Annotated Sheets Showing Changes

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Figure 15: Alignment of SEQ ID NO: 35 with Swiss Prot database

	1	50
P04180	.....	MGP
Q08758	.....	MGP
Q9MZ04	.....	MGL
Q9DDJ6	.....	MGR
Q9Y2B3	.....	MGL
SEQ ID NO: 35	MCSISCSTPQQLC	HYRKSGELITRKSRAAIRWRYGQQCKVLLPLDLIR

	51	100
P04180	PGSPWQWVTL	LLGLLLP.....AAPFWLLNVLFPPHTTPK
Q08758	PGSPWQWVPL	LLGLLLP.....AAPFWLLNVLFPPHTTPK
Q9MZ04	PGSPWQWVLL	LLLELLPT.....AAPFWLLNVLFPPHTTPK
Q9DDJ6	TGAGFALLT	LLLLPQP.....ASQFWLFNVLFPPSTTPE
Q9Y2B3	HLRPYRVGL	LPDGLFLL.....LLLMLLADPALP.....
SEQ ID NO: 35	SSSQFFIVVL	TTLTFLFTTCGAVHTAAQDRSFATLSQRSRASLFSVGRAQ

	101	150
P04180	AELSNHTRPV	ILVPGCLGNQLEAKLDKPDVVN.WMCYRKTE
Q08758	AELSNHTRPV	ILVPGCLGNQLEAKLDKPDVVN.WMCYRKTE
Q9MZ04	AELSNHTRPV	ILVPGCLGNQLEAKLDKPDVVN.WMCYRKTE
Q9DDJ6	APPTNSTPP	VVLVPGCLGNQLEAKLDKPDVVN.WMCYRKTE
Q9Y2B3	...AGRHPV	VVLVPGDLGNQLEAKLDKPTVVH.YLCSKKTES
SEQ ID NO: 35	ARNKHHLAP	VVIVPGTGGNQLEARLTADYEANKPWCYSFRKDYFRLWLDV

	151	200
P04180	NMFLPLGVDC	WIDNTRVVYNRSSGLVSNAPGVQIRVPGFGK
Q08758	NMFLPLGVDC	WIDNTRVVYNRSSGLVSNAPGVQIRVPGFGK
Q9MZ04	NMFLPLGVDC	WIDNTRVTYNHSSGRVSNAPGVQIRVPGFGK
Q9DDJ6	NTFLPVGVD	CWIDNTRVVYNRTSRKMSNAPGVHIRVPGFGK
Q9Y2B3	ELLLPVIID	CWIDNIRLVYNKTSRATQFPDGV
SEQ ID NO: 35	KTLPFPFTTC	FADRLSLDYNPQSDAYSNIKGVKTRVPFFGTTEGMEYLDP

	201	250
P04180	SK..LAGYLHT	LVQNLVNNGYVRDET
Q08758	SK..LAGYLHT	LVQNLVNNGYVRDET
Q9MZ04	SK..LAGYMHT	LVQNLVNNGYVRDET
Q9DDJ6	SK..LAGYLHT	LVQNLVNNGYVRDQTVRAAPYDWRVGPQE
Q9Y2B3	SKSSVGSYFHT	MVESLVGWGYTRGEDVRGAPYDWRRAPNENG
SEQ ID NO: 35	SLKFLTGYMI	HLVNALKAHGYENGKSLYGAPYDFRFPAGPHASNVALEYL

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Figure 15 (continued)

	251	300
P04180	RKLAGLVEEMHAAYG.KPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGF	
Q08758	HKLAGLVEEMHAAYG.KPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGF	
Q9MZ04	RDLARLVEEMHATYG.KPVFLIGHSLGCLHLLHFLHQPQSWKDRFIDGF	
Q9DDJ6	QNLKALIEEMHDEYQ.QRVFLIAHSMGNLNVLYFLLQQRQAWKDQYIGGF	
Q9Y2B3	LALREMIEEMYQLYG.GPVVLVAHSMGNMYTLYFLQRQPQAWKDKYIRAF	
SEQ ID NO: 35	KDLKDLIETAYSVNANEPVVILAHSMGGLWTLFFLNQQSMWRNKYVSRF	
	301	350
P04180	ISLGAPWGGSIKPMLVLASGDNQGIPISSIKLKEEQRITTTSPWMFPSPR	
Q08758	ISLGAPWGGSIKPMLVLASGDNQGIPISSIKLKEEQRITTTSPWMFPSPR	
Q9MZ04	ISLGAPWGGSIKPMQVLASGDNQGIPISSIKLKEEQRITTTSPWMFPSS	
Q9DDJ6	ISLGAPWGGSVKPLRVLASGDNQGIPLMSNIKLREEQRMTTTSPWMFPST	
Q9Y2B3	VSLGAPWGGVAKTLRVLASGDNNRIPVIGPLKIREQQRSVSTSWLLPYN	
SEQ ID NO: 35	VSVATPWGGAVEQMMTFASGNPEGVPFVNSLVVREEQRRSESNLWLLPVR	
	351	400
P04180	MAWPEDHVFISTPSFNYTGRDFQRFADLHFEEGWYMWLQ.SRDLLAGLP	
Q08758	LAWPEDHVFISTPSFNYTGRDFQRFADLHFEEGWYMWLQ.SRDLLAGLP	
Q9MZ04	EVWPEDHVFISTPSFNYTIRDYQRFVDVHFEEGWYMWLQ.SRDLLAGLP	
Q9DDJ6	LAWPEDHIFISTPSYNYTYRDYKQFFTDVNLEDGWYMWED.MKDLLKGLP	
Q9Y2B3	YTWSPEKVFVQPTINYTLRDYRKFFQDIGFEDGWLMRQD.TEGLVEATM	
SEQ ID NO: 35	RCFR.DRPLVITSSRNYTAGDMEQFLCDIGFPEGVAPYKSRIPLTDILQ	
	401	450
P04180	APGVEVYCLYGVLPTPRTYIYDHGFYTDVPVGLYEDGDDTVATRST.E	
Q08758	APGVEVYCLYGVLPTPRTYIYDHGFYTDVPVGLYEDGDDTVATRST.E	
Q9MZ04	APGVEVYCLYGVLPTPSTYIYDHDFYTDPLDVLVYEDGDNTVATRSM.E	
Q9DDJ6	PPGVDTYCLYGTGYPTVETIYDEHFPYEDPVDMIYGDGDDTVNRRSS.E	
Q9Y2B3	PPGVQLHCLYGTGVPTPDSFYYES.FPDRDPK.ICFGDGDGTVNLKSA.L	
SEQ ID NO: 35	PPQVPVTLIHGYGVPTAETLSYEK.KGFDNHPEITEGDGDGTVNVCSLTA	
	451	500
P04180	LCGLWQGRQPQPVHLLPLHGIQHLNMVFSNLTLEHINAILLGAYRQGPPA	
Q08758	LCGLWQGRQPQPVHLLPLRGIQHLNMVFSNQTLLEHINAILLGAYRQGPPA	
Q9MZ04	LCSQWQGRQPQPVHLLPLHRIQHLNMVFSNQTLLEHINDILLGAYRHGNPV	
Q9DDJ6	LCKRWRNQQKQKVHIQELRGIDHLNMVFSNLTSSINEILLGSSQVGAGT	
Q9Y2B3	QCQAWQSRQEHQVLLQELPGSEHIELANATTLAYLKRVLGP.....	
SEQ ID NO: 35	VVEEWERVAGQELEMIALHGKQHMQLHDDHSVQVIVDAILNVTPQEQLM	
	501	524
P04180	SPTASPEPPPE.....	
Q08758	SLTASPEPPPE.....	
Q9MZ04	PPAASPRPLTPE.....	
Q9DDJ6	KEHGELGQMGALKSSLEAGRGRGN	
Q9Y2B3	.....	
SEQ ID NO: 35	FH.....	



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Figure 16: Alignment of SEQ ID NO: 23 with Swiss Prot database

	1	50
P10349	.....	
Q9FEP9	.....MFILSSSSSTLPSAPPFSSSTTSIFLSFSRVSLPPSSSSLK...	
Q39639	MFILSAVSSSSSSSSVPSLPPFSLSPSISLSFSRVSLPPSSSSSSSSSL	
Q9FEQ0	.....MFILSSSSSLPSPLSLSSSRVSLPPPSSSSLN..	
Q9M4V1	.....MLVPSALPRVSRSVSAARFSVSGVGSSPALSSRS	
SEQ ID NO: 23	.....MPSLFRAKRNGRRTPGNAVNTN...	
	51	100
P10349	.....MAELIQDKESAQSAATAAAAS	
Q9FEP9	..LLPLSLQFGPPKLAS.SCSLRFSASRAMAELIQDKESAQSAATAAAAS	
Q39639	KLFLPLSLHFTPPKLSSPHSFLRFSASRAMAELIQDKESAHTPSTTDVTR	
Q9FEQ0	..LLPLSPHFQPPNLAC...SCSVA SRSTAELLHDFKHS AHTAASADEAR	
Q9M4V1	CTSLDSSVRSSLRRCPCGIYTSRTKAVVEAVESKASAREWRS AVKRAVLA	
SEQ ID NO: 23	.....FGKSEFH.....R..EIS...GSTRATTQVAEATTAGLRE	
	101	150
P10349	SGYERRNEPAHSRKFLDVRSEEELLSCKKETEAGKLPPNVAAGMEELYQ	
Q9FEP9	SGYERRNEPAHSRKFLDVRSEEELLSCKKETEAGKLPPNVAAGMEELYQ	
Q39639	N.....DPPHSRAFLDLRSEEELLSCKKETEAGKLPSNVAAGMEELYQ	
Q9FEQ0	N.....HLPHSRAFLDVRSEQELLSYIRREAEAGKLPSNVAAGMEELYQ	
Q9M4V1	SDTGAE E EVGHSRSLRARSEELLSYIRKEVETGRLSSDIANGLEEELY	
SEQ ID NO: 23	TIEDRAIIDGHSHSFEGIQSEEELMQVIEKEVESGRLPKRAGAGMV ELYR	
	151	200
P10349	NYRNAVIESGNPKADEIVLSNMTVALDRILLDVEDPFFVSSHKAIREPF	
Q9FEP9	NYRNAVIESGNPKADEIVLSNMTVALDRILLDVEDPFFVSSHKAIREPF	
Q39639	NYKNAVFESGNPKADEIVLSNMTVALDRILLDVEDPFFVSPHHKAIREPF	
Q9FEQ0	NYKNAVLKSGNPKADEIVLSNMTVALDRILLDVEEPFVFSPPHKAIREPF	
Q9M4V1	NYRNAVLSQSGDPRANKIILSNMAVAFDRILLDVEDPFTFSPHHQAIREPF	
SEQ ID NO: 23	NYRDAVVSSGVENAMDIVVKVMSTVLDRI LLQFE E PFTFGSHHKRMVEPY	
	201	250
P10349	DYYIFGQNYIRPLIDFGNSFVG NLSLFKDIEEKLQQGHNVVLISNHQTEA	
Q9FEP9	DYYIFGQNYIRPLIDFGNSFVG NLSLFKDIEEKLQQGHNVVLISNHQTEA	
Q39639	DYYTFGQNYVRPLIDFENSFVG NLSLFKDIEEKLHQGHNVVLISNHQTEA	
Q9FEQ0	DYYTFGQNYVRPLIDFGNSFVG NLPFLKDIEEKLHQGHNVVLISNHQTEA	
Q9M4V1	DYYMFGQNYIRPLIDFRRSYIGNISIFSDMEEKLQQGHNIVLMSNHQTEA	
SEQ ID NO: 23	DYYTFGQNYVRPLLD FRNSYLG NLFKDIEKNLKEGHNVIFLSNHQTEA	

Annotated Sheets Showing Changes

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Figure 16 (continued)

	251	300
P10349	DPAIISLLEKTNPYIAENTIFVAGDRVLADPLCKPFSIGNRLICVYSKK	
Q9FEP9	DPAIISLLEKTNPYIAENTIFVAGDRVLADPLCKPFSIGNRLICVYSKK	
Q39639	DPAIISLLEKTNPYIAENMIYVAGDRVIADPLCKPFSIGNRLICVYSKK	
Q9FEQ0	DPAIISLLEKTSPIYAENMIYVAGDRVIVDPLCKPFSIGNRLICVYSKK	
Q9M4V1	DPAIALLLERTNSHIAETMVVFVAGDRVLTDPCKPFSMGRNLLCVYSKK	
SEQ ID NO: 23	DPAVMALLLEHSHPYLAENLTYVAGDRVLDPFCKPFSMGRNLLCVYSKK	

	301	350
P10349	HMFDIPELTETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTG	
Q9FEP9	HMFDIPELTETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTG	
Q39639	HMLDIPELAETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTG	
Q9FEQ0	HMFDIPELAETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRDPSSG	
Q9M4V1	HMDDVPELIEMKRANTRSLKEMALLLRGGSQIWIAPSGGRDRPDPSTG	
SEQ ID NO: 23	HIHDVPDLAEMKIKANAKTLRQMTILRQGGQYYG.....	

	351	400
P10349	EWYPAPFDASSVDNMRRLIQHSDVPGHLFPLALLCHDIMPPPSQVEIEIG	
Q9FEP9	EWYPAPFDASSVDNMRRLIQHSDVPGHLFPLALLCHDIMPPPSQVEIEIG	
Q39639	EWYPAPFDASSVDNMRRLLQHSGAPGHLYPLALLCYDIMPPPSQVEIEIG	
Q9FEQ0	EWLPAPFDASSMDNMRRLIQHSGVPGHLCPLALLCYDIMPPPSKVEIEIG	
Q9M4V1	EWHPAPFDVSSVDNMRRLEHSSVPGHIYPLSLCYEVMPPPQQVEKQIG	
SEQ ID NO: 23	.....	

	401	450
P10349	EKRVIAFNGAGLSVAPEISFEEIAATHKNPEEVREAYSKALFDSVAMQYN	
Q9FEP9	EKRVIAFNGAGLSVAPEISFEEIAATHKNPEEVREAYSKALFDSVAMQYN	
Q39639	EKRVISFNCTGLSVGPEISFDEIAASRDNPDEVREAYSKALYDSVAKQYN	
Q9FEQ0	EKRVISFNQVGLSLAPAISFEAIAATHRNPDEAREAYSKALFDSVSMQYN	
Q9M4V1	ERTTISFHGVGLSVAPELNFNELTAGCETPEEAKEAFSQALYNSVGEQYN	
SEQ ID NO: 23	.....	

	451	476
P10349	VLKTAISGKQGLGASTADVSLSQPW.	
Q9FEP9	VLKTAISGKQGLGASTADVSLSQPW.	
Q39639	VLKAAIDGKQELEASVADVSLSQPWI	
Q9FEQ0	VLKAAIYGRQALRASTADVSLSQPWI	
Q9M4V1	VLKSAIHEHRLNASNSIISLSQPWQ	
SEQ ID NO: 23	.....	

Annotated Sheets Showing Changes

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Figure 17: Alignment of SEQ ID NO: 27 with Swiss Prot database

	1	50
SEQ ID NO: 27	MEGGGSIIALPLGLMFLFSGFFINILQLLSVLFILPFSRRAYRVNMIMM	
Q9XFW4	.MAMAAVIVPLGILFFISGLVNNLLQAVCYLVVRPMSKNTYRKINRVVA	
Q40119	MAIPAAAFIVPISLLFFMSGLVNNFIQAVFYVLVRPISKDTYRRINTLVA	
Q9SDN3	.....	
Q41745	MAIPLVLVVLPLGLLFLLSGLIVNAIQAVLFTIRPFSKSFYRRINRFLA	
Q9SYC8	MKIPAAALVFIPVGVFLISGLIVNIIQLVFFIIVRPFSRSLYRRINKNVA	
	51	100
SEQ ID NO: 27	EVLWSELIWLLDWWANVKVKVYTPKESWEHLGKEHALLICNHRSDIDWLW	
Q9XFW4	ETLWLELVWIVDWWAGVKIQVFADDETFNRMGKEHALVCNHRSDIDWLW	
Q40119	ELLWLELVWVIDWWAGVKVQLYTDTESFRLMGKEHALLICNHRSDIDWLI	
Q9SDN3	.....MGKEHALVISNHRSDIDWLW	
Q41745	ELLWLQLVWVVDWWAGVKVQLHADEETYRSMGKEHALIISNHRSDIDWLI	
Q9SYC8	ELLWLQLIWLFDWWACIKINLYVDAETLELIGKEHALVLSNHRSDIDWLI	
	101	150
SEQ ID NO: 27	GWIIAQRLGCLGGTRAVMKKSTKFLPVIGWSMWFSEYVFLSRDWAKDEKV	
Q9XFW4	GWILAQRSGCLGSALAVMKSSKFLPVIGWSMWFSEYLFERNWAKDEST	
Q40119	GWVLAQRGCLGSSIAVMKKSSKFLPVIGWSMWFSEYLFERNWAKDENT	
Q9SDN3	GWVLAQRSGCLGSSLAVMKSSKFLPVIGWSMWFSEYLFERSWAKDEGT	
Q41745	GWILAQRSGCLGSTLAVMKSSKFLPVIGWSMWFSEYLFERSWAKDEKT	
Q9SYC8	GWVMAQRVGCLGSSLAIMKKEAKYLPPIGWSMWFSDYIFLERSWAKDENT	
	151	200
SEQ ID NO: 27	LKNGYSSLKGFPRTLWVALFVEGTRFTKAKLEAAQKFAADTGLRVPRHVL	
Q9XFW4	LQSGLQRLNDFPRPFWLALFVEGTRFTEAKLAAQEYAASSELPVPRNVL	
Q40119	LKSGLQRLNDFPKPFWLALFVEGTRFTKAKLLAAQEYAASAGLPVPRNVL	
Q9SDN3	LKSGVQRLKDFPQPFWLALFVEGTRFTQAKLLAAQEYAAATGLPVPRNVL	
Q41745	LKWGLQRLKDFPRPFWLALFVEGTRFTPAKLLAAQEYAASQGLPAPRNVL	
Q9SYC8	LKAGFKRLEDFPMTFWLALFVEGTRFTQEKLEAAQEYASIRSLPSRNVL	
	201	250
SEQ ID NO: 27	VPRTKGFVSAVENLREFVPVYDMTVAISKELPNPTMIRIFRGQPSVVHV	
Q9XFW4	IPRTKGFVSAVSNMRSFVPAIYDMTVAIPKTSPPPTMLRLFKGQPSVVHV	
Q40119	IPRTKGFVSAVSNMRSFVPAIYDLTVAIPKTTEQPTMLRLFRGKSSVVHV	
Q9SDN3	IPRTKGFVTAVSQMRSFAPAIYDVTVAIPKSSPAPTMLRLFEGRPSVVHV	
Q41745	IPRTKGFVSAVSIMRDFVPAIYDTTVIVPKDSPQPTMLRLIKGQSSVIHV	
Q9SYC8	IPRTKGFVSAVSEIRSFVPAIYDCTLTVHNNQPTPTLLRMFSGQSSEINL	

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Figure 17 (continued)

	251	300
SEQ ID NO: 27	HVRRVPMSDLPEGANAISKWCHDAFHIKDDRLQHEKENTFGEDLYIPIE	
Q9XFW4	HIKCHSMKDLPEPEDEIAQWCRDQFVAKDALLDKHIAADTFPGQKEQNIG	
Q40119	HLKRHLMKDLPKTDDGVAQWCKDQFISKDALLDKHVAEDTFSGLEVQDIG	
Q9SDN3	HIKRHVMRDLPETDEAVAQWCKDIFVAKDALLDKHTVEQTFGDQQLKVTG	
Q41745	RMKRHAMSEMPKSDDEVSKWCKDIFVAKDALLDKHLATGTFD.EEIRPIG	
Q9SYC8	QMRRHKMSELPETDDGIAQWCQDLFITKDAQLEKYFTKDVFSLEVHQIN	

	301	350
SEQ ID NO: 27	RPLKPLIIVISWAITLLAAAWFLRR.VLSTWKGIWVAGVLVVMLCV	
Q9XFW4	RPIKSLAVVVSACLTLGAMKFLHWSNLFSSWKGIASAFGLGIITLCM	
Q40119	RPMKSLVVVSWMCLLCLGLVKFLQWSALLSSWKGMITTFVLGIVTVLM	
Q9SDN3	RPLKSLLVVTAWACLLILGALKFLYWSSLLSSWKGIASALGLGVTVLM	
Q41745	RPVKSLLVTLFWSCLLLFGAIEFFKWTQLLSTWRGVAFATAAGMALVTGVM	
Q9SYC8	RPIKPLIVVVIWLGFLVFGGFKLLQWLSIVASWKIILLFVFFLVIATITM	

	351	391
SEQ ID NO: 27	QILVMSSQSERSSDPAKKANQKQAASVAHLGKTD.....	
Q9XFW4	QILIRSSQSERSTPAKVAPAKPKDNHQSGPSSQTEVEEKQK	
Q40119	HILIRSSQSEHSTPAKTRARQTAENPK.....	
Q9SDN3	QILIRFSQSERSTPAPVAPTNNKNKGESSGKPEKQQ.....	
Q41745	HVFIMFSQAERSSSARAARNRVKKE.....	
Q9SYC8	QILIQSSESQRSTPAKRPLQEQLISA.....	

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Figure 18: Alignment of SEQ ID NO: 8 with Swiss Prot database

	1	50
SEQ ID NO: 8	MESTADVGMSSDDDPILLNGLETPLLAEFPLGERPTIGPEAPVNPFPHEPDG	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	.....MGQREDIRTLSNEYEVTDIPRRGGLSVVRRGTRRRTLHSGQHHE	
O35259	.....	
Q9FF57	.....	
	51	100
SEQ ID NO: 8	GWKTNNNEWNYFQMMKSILLIPLLLVRLVSMITIVAFGYVWIRICLIGVTD	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	VVAIKTLR.RFGPPPAPEKKSLSNKS RVPQAALIS ETLTNELLVMIKIVE	
O35259	.....METIMDDEVTKRTSABELESWNLLSRTNYN.	
Q9FF57	.....MIEQLGLIIIMGLIHYQSERVKPREWLKLSSSENSR	
	101	150
SEQ ID NO: 8	PLFKPFNPCCRFLWLGIRLVARAVMFTMGYYYIPIKGKPAHRSEAPIIVS	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	DVSPHPNVIHLYDVCEDPSGVHLILELCSGGELFDRIAGQARYNEEGAAA	
O35259	...FQYISLRLTILWGLGVLI RYCFLPLRLAFTGIGLLVVGTTMVG Y	
Q9FF57	LG.NTKTNHRRSETGDVSYEQRDLLDISPTLTEAAGAI VDFHC FKTCRCF	
	151	200
SEQ ID NO: 8	NHIGFLDPFVFYRHLPAIVSAKENVEMPIIGLFLQALQIIPVDRDQAQS	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	VVRQIAKGLEALHGASIVHRDLKPENCLFLNKDENSPLKIMDFGLSSIED	
O35259	LPNGRFKEFLSKHVHLMCYR.....	
Q9FF57	TLAFGWIIIFLSLFIPVNALLK.....	
	201	250
SEQ ID NO: 8	RHHAAGNVRRRAVDNMWSHVMLFPQGT TNGRAIIAFKTGAFSPGLPVQP	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	FANPVVGLFGSIDVVSPEALSREKITTKSDIWSLGVILYILLSGYPPFIA	
O35259	.....	
Q9FF57	.....GQDRLRKKIER	

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Figure 18 (continued)

	251	300
SEQ ID NO: 8	MVIRYPHKYVNPSCDQGGPLVVVLQMTQFINHMEVEYLPVMKPTVREM	
P42322	.....	
Q9NWK7	.....	
Q9XFJ4	PSNRQKQMILNGQFSFDEKTWKNISSAKQLISSLLKVDPNMRPTAQEI	
O35259	ICVR.ALTAIITYHN.....	
Q9FF57	VLVEMICSFFVASWTG.....	
	301	350
SEQ ID NO: 8	KYPHEFASRVSRSEMAKALGIVCTEHSFLD...IKLALAAEKLKQPSGRSL	
P42322	.....MGTNTSSLRP	
Q9NWK7	.....MGN	
Q9XFJ4	LEHPWVTGDLAQEQMDAEIVSRLQSFNARRKFRAAAMASILSSSFSLRT	
O35259	.....RKNRPRN.....GG	
Q9FF57	.....VVKYHGPRPSIRP...KQ	
	351	400
SEQ ID NO: 8	VEFARMEKLFRLDFPTAKEYLEKFSAMDRTHSGF..VTFEELCTALDLP.	
P42322	EEVEEMQKGTNFTQKEIKKLYKRFKKLDKDGNGT..ISKDEFLMIPELA.	
Q9NWK7	ENSLPMELCSNFDPEIKRLGKRFRKLDLDNSGS..LSVDEFMTLPELQ.	
Q9XFJ4	KKLKKLVGSYDLKPEELENLSHNFKKICKNGENSTLLEFEEVLKAMEMSS	
O35259	ICVANHTSRIDVIFASDGYAMVGQVHGGLMGVIQRAMVKACPHVWFE.	
Q9FF57	VYVANHTSMIDFIVLEQMTAFVIMQKHPGWVGLLQSTILESVCIGWFN.	
	401	450
SEQ ID NO: 8	RSPITKQVFNLFDKDGHGSINFREFLAGLAFVSSHTSFSSTMEAFAKACD	
P42322	VNPLVKRVISIFDENGDSVNFKEFIAALS VFNAQGDQKLEFAFKVYD	
Q9NWK7	QNPLVQRVIDIFDTDGNGEVDKFEFIEGVSQFSVKDKLSKLRFAFKIYD	
Q9XFJ4	LVPLAPRIFDLFDNNRDGTVDMRIIGGFSSSLKYSQGD.DALRLCFQVYD	
O35259	RSEVKDRHLVAKRLTEHVQDKSKLPILIFPEGTCINNT.SVMMFKKGSFE	
Q9FF57	RSEAKDREIVAKKLRDHVQGADSNPLLIIFPEGTCVNNN.YTVMFKKGAFE	
	451	500
SEQ ID NO: 8	VNGDGTLSRDEVERSLLDIFPELPPI.....TVFKLFDTL DINHDEKIS	
P42322	IDGDGYISNGELFTVLKMMVGNLSD.VQLQQIVDKTILEADEDGDGKIS	
Q9NWK7	MDKDGYSNGELFQVLKMMVGNLKD.TQLQQIVDKTIIHADADGDGKIS	
Q9XFJ4	TDRSGCISKEEVESMLRALPEDCLPINITEPGKLDEIFDLMDANS DGKVT	
O35259	IGATVYPVAIKYDPQFGDAFWNSSKYG.....MVTYLLRMMT SWAIVCSV	
Q9FF57	LDCTVCPIAIKYNKIFVDAFWNSRKQS.....FTMHLLQLMT SWAVVCEV	

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Figure 18 (continued)

	501	550
SEQ ID NO: 8	WEEFSSFLQRNPEYLAIIIYAHPTLLKPPTSTS.....	
P42322	FEEFAKTLSHQDLENKMTIRL.....	
Q9NKG7	FEEFCVVGNMDVHKKMVVDV.....	
Q9XFJ4	FDEFKAAMQRDSSLQDVVLSSLRPN.....	
O35259	WYLPMTREKDEDAVQFANRVKSAIARQEDW.....	
Q9FF57	WYLEPQTIRPGETGIEFAERVDMISLRAGLKKVPWDGYLKYSRPSPKHS	

	551	568
SEQ ID NO: 8	.....	
P42322	.....	
Q9NKG7	.....	
Q9XFJ4	.....	
O35259	.....	
Q9FF57	ERKQSFASILARLEEK	

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Figure 19: Alignment of SEQ ID NO: 10 with Swiss Prot database

	1	50
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	MTSTENTAMFTEDTSTLNGSTEANHAEFPLGERPTIGPEPPVNPFHESST	
O35259	.....	METIMDDEVTKRTSAEEL
Q9XFJ4	MGQREDIRTLSNEYEVTDIPRRGGLSVVRRGTRRRRTLHSGQHHEVVAIKT	
	51	100
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	WSIPQVIKTILLVPLLVIIRLLSMFALMMLGYICVKVAMIGCKDPLFKPFN	
O35259	ESWNLLSRTNYNFQYISLRLTILWGLGVLRIRYCFLLP.....	
Q9XFJ4	LRRFGPPPAPEKSLNKSRLVQAALISETLTNELLVMIKIVEDVSPHPN	
	101	150
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	PLRRLLLVSVRLIARGVMVAMGYIYLVKGPAPHRVAPIIVSNHIGFVD	
O35259	.....	LRIALFTGIGLLVVG.....TTMVG...
Q9XFJ4	VIHLYDVCEDPSGVHLILELCSGGELFDRIAGQARYNEEGAAAVVRQIAK	
	151	200
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	PIFVFYRHLPIVIVSAKEIVEMPIIGMFLQALQIIPVDRINPASRHHAGN	
O35259	.....	YLPNGRFKEFLSKH....
Q9XFJ4	GLEALHGASIVHRDLKPENCLFLNKDENSPLKIMDFGLSSIEDFANPVVG	
	201	250
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	IRRRAMDNEWPHVMLFPEGTTNGKALISFKTGAFSPGLPVQPMVIKYPH	
O35259	.....	VHLMCYR.....
Q9XFJ4	LFGSIDVVSPEALSREKITTKSDIWSLGVILYILLSGYPPFIAPSNRQKQ	
	251	300
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	KYVNPCWCNQGGPLVILFQLMTQFVNYMEVEYLPVMTPNVHEIKNPHEFA	
O35259	.....	ICVR.....ALTAITYHNRK
Q9XFJ4	QMILNGQFSFDEKTWKNISSAKQLISSLLKVDPNMRPTAQEILEHPWVT	



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Figure 19 (continued)

	301	350
Q24214	.....	MGNETSLPME
P28470	.....	GNEASYHSE
SEQ ID NO: 10	NRVRTEMAKALGVVCTEHNF...	LDIKLKMAAEKQPSGRSLVEFARME
O35259	NRPR.....	N.....GGICVANHT
Q9XFJ4	GDLAKQEQMDAEIVSRLQSFNARRKFRAAAMASILSSSFSLRTKKLKKLV	
	351	400
Q24214	MCSNFDADAEIRRLGKRFRKLDLD..	NSGALSVDEFMSLPQLQ.QNPLVQR
P28470	MGTHFDHDEIKRLGRSFKKMDLD..	KSGSLSVDEFMSLPQLQ.QNPLVGR
SEQ ID NO: 10	KLFRLDYSKAQEYLEKFSAMDPS..	HSGYVTYDEFLKALHLP.PTQITEQ
O35259	SRIDVIIFASDGYAMVGQVHGG..	LMGVIQRAMVKACPHVW.FERSEVK
Q9XFJ4	GSYDLKPEELENLSHNFKKICKNGENSTLLEFEEVLKAMEMSSLVPLAPR	
	401	450
Q24214	VIDIFDADGNGEVDKFKEFIQVVSQFS.VKGDKLSKLRFAFRIYDMNDGY	
P28470	VIDIFDTDGNGEVDREFIVGTSQFS.VKGDEEQKLRFARIYDMNDGF	
SEQ ID NO: 10	VFNLFDKNGHGSINFREFVAGLAFLS.THTSFQTTMKAAFKACDVGDT	
O35259	DRHLVAKRLTEHVQDKSKLPILIFPEGTCINNTSVMFMFKKGSFEIGATVY	
Q9XFJ4	IFDLFDNNRDGTVMREIIGGFSSLK..YSQGDDALRLCFQVYDTRSGC	
	451	500
Q24214	ISNGELFQVLKMMVGNNLKD.TQLQQIVDKTIGFADKDEDGKISFDEFCS	
P28470	ISNGELFQVLKMMVGNNLKD.WQLQQLVDKSILVLDKGDGRISFEEFRD	
SEQ ID NO: 10	LTRNEVESSLMAVFP.....	ELPPATVLKLFDTLDLNRDGSINWEEFSS
O35259	PVAIKYDPQFGDAFWN.....	SSKYGMVTYLLRMTSWAIVCS
Q9XFJ4	ISKEEVESMLRALPEDCLPINITEPGKLDEIFDLMDANS DGKVTFDEFKA	
	501	532
Q24214	VVGNTDIHKMVDV.....	
P28470	VVRTMEIHKLVVFDHGQED.....	
SEQ ID NO: 10	FLQRNPEYLAIILAAHPTLLQAPKSESEETNI	
O35259	VWYLPMTREKDEDAVQFANRVKSAIARQEDW	
Q9XFJ4	AMQRDSSLQDVVLSSLRPN.....	

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Figure 20: Alignment of SEQ ID NO: 12 with Swiss Prot database

	1	50
Q9XFW4	.MAMAAVIVPLGILFFISGLVNNLLQAVCYVLRPMSKNTYRKINRVVA	
Q9SDN3	.....	
Q40119	MAIPAAAFIVPISLLFFMSGVLVNFQAVFYVLRPISKDTYRRINTLVA	
Q41745	MAIPLVLVVLPLGLLFLLSGLIVNAIQAVLFVTIRPFSSFYRRINRFLA	
Q9SYC8	MKIPAAALVFIPVGVFLISGLIVNIIQLVFFIIVRPFSRSLYRRINKNVA	
SEQ ID NO: 12	.....MIMM	
	51	100
Q9XFW4	ETLWLELVWIVDWWAGVKIQVFADDETFRNMGKEHALVVCNHRSDIDWL	
Q9SDN3	.....MGKEHALVISNHRSDIDWL	
Q40119	ELLWLELVWVIDWWAGVKVQLYTDTESFRLMGKEHALLICNHRSDIDWLI	
Q41745	ELLWLQLVWVVDWWAGVKVQLHADEETYRSMGKEHALIISNHRSDIDWLI	
Q9SYC8	ELLWLQLIWLFDWWACIKINLYVDAETLELIGKEHALVLSNHRSDIDWLI	
SEQ ID NO: 12	EVLWSELIWLLDWWANVKVKVYTPKESWEHLGKEHALLICNHRSDIDWL	
	101	150
Q9XFW4	GWILAQRSGCLGSALAVMKSSKFLPVIGWSMWFSEYLFLEARNWAKDEST	
Q9SDN3	GWVLAQRSGCLGSSLAVMKSSKFLPVIGWSMWFSEYLFLEARNWAKDEGT	
Q40119	GWVLAQRSGCLSSSIAMVKSSKFLPVIGWSMWFSEYLFLEARNWAKDENT	
Q41745	GWILAQRSGCLGSTLAVMKSSKFLPVIGWSMWFSEYLFLEARNWAKDEKT	
Q9SYC8	GWVMAQRVGCGLSSLAIMKKEAKYLPPIGWSMWFSDYIFLEARNWAKDENT	
SEQ ID NO: 12	GWIIAQRGLGCGGTRAVMKKSTKFLPVIGWSMWFSEYVFLSRDWAKDEKV	
	151	200
Q9XFW4	LQSGLQRLNDFPRPFWLALFVEGTRFTAKLAAQEYAAASSELVPVRNVL	
Q9SDN3	LKSGVQRLKDFPQPFWLALFVEGTRFTQAKLLAAQEYAAATGLPVRNVL	
Q40119	LKSGLQRLNDFPKPFWLALFVEGTRFTKAKLLAAQEYAAASAGLPVRNVL	
Q41745	LKWGLQRLKDFPRPFWLALFVEGTRFTPAKLLAAQEYAAASQGLPAPRNVL	
Q9SYC8	LKAGFKRLEDFPMTFWLALFVEGTRFTQEKLEAAQEYASIRSLPSPRNVL	
SEQ ID NO: 12	LKNGYSSLKGFPRTLWVALFVEGTRFTKAKLEVAQKFAADTGLRVPRYVL	
	201	250
Q9XFW4	IPRTKGFVSAVSNMRSFVPAIYDMTVAIPKTSPPPTMLRLFKGQPSVVHV	
Q9SDN3	IPRTKGFVTAVSQMRSFAPAIYDVTVAIPKSSPAPTMLRLFEGRPSVVHV	
Q40119	IPRTKGFVSAVSNMRSFVPAIYDLTVAIPKTTEQPTMLRLFRGKSSVVHV	
Q41745	IPRTKGFVSAVSMRDFVPAIYDTTIVVPKDSQPPTMLRLKQGSSVIVHV	
Q9SYC8	IPRTKGFVSAVSEIRSFVPAIYDCTLTVHNNQPTPTLLRMFSGQSSEINL	
SEQ ID NO: 12	VPRTKGFVSAVENLREFVPVYDMTVAISKELPNPTMIRIFRGQPSVVHV	

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Figure 20 (continued)

	251	300
Q9XFW4	HIKCHSMKDLPEPEDEIAQWCRDQFVAKDALLDKHIAADTFPGQKEQNIG	
Q9SDN3	HIKRHVMDLPETDEAVAQWCKDIFVAKDALLDKHTVEQTFGDQQLKVTG	
Q40119	HLKRHLMKDLPKTDDGVAQWCKDQFISKDALLDKHVAEDTFSGLEVQDIG	
Q41745	RMKRHAMSEMPKSEDDVSKWCKDIFVAKDALLDKHLATGTFD.EEIRPIG	
Q9SYC8	QMRRHKMSELPETDDGIAQWCQDLFITKDAQLEKYFTKDVFSDLVHQIN	
SEQ ID NO: 12	YVRRVPMSDLPEGANAISKWCHDAFIKDDRLEQHEKENTFGEDLYIPIE	

	301	350
Q9XFW4	RPIKSLAVVVSACLLTLGAMKFLHWSNLFSSWKGIASAFGLGIITLCM	
Q9SDN3	RPLKSLLVVTAWACLLILGALKFLYWSSLLSSWKGIASFALGLGVVTVLM	
Q40119	RPMKSLVVVSWMCLLCLGLVKFLQWSALLSSWKGMMITTFVLGIVTVLM	
Q41745	RPVKSLLVTLFWSCLLLFGAIEFFKWTQLLSTWRGVAFTAAGMALVTGVM	
Q9SYC8	RPIKPLIVVVIWLGLVFGGFKLLQWLSIVASWKIILLFVFFLVIATITM	
SEQ ID NO: 12	RPLKPLIIVISWAITLLAAAWFLRR..VLSTWKGIWVAGVLVVVMLCV	

	351	391
Q9XFW4	QILIRSSQSERSTPAKVAPAKPKDNHQSGPSSQTEVEEKQK	
Q9SDN3	QILIRFSQSERSTPAPVAPTNNKNKGESSGKPEKQQ.....	
Q40119	HILIRSSQSEHSTPAKTRARQTAENPK.....	
Q41745	HVFIMFSQAERSSSARAARNRVKKE.....	
Q9SYC8	QILIQSSESQRSTPAKRPLQEQLISA.....	
SEQ ID NO: 12	QILVMSSQSERSSDPAAKKANQKQAASVAHLGKTD.....	